Hongwei Jiang

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EDUCATION

Shanghai Jiao Tong University   *P.R.China*, *Shanghai*
Mechanical Engineering (Industrial Engineering), Ph.D.   **Advisor**: Prof. Xinguo Ming 2021.09 - present

Huazhong University of Science and Technology   *P.R.China*, *Wuhan*
Industrial Engineering, B.A.   **Advisor**: Prof. Liang Gao   2017.09 - 2021.06

RESEARCH INTERESTS

➤ ***Intelligent industrial software assisted by LLMs***: Taking the design and development of intelligent capabilities of industrial software (perception, cognition, decision-making, etc.) as the starting point, explore the application of cutting-edge LLMs and human-computer interaction technologies in the industrial field

➤ ***Human-in-the-loop intelligent transportation system***: Social crowdsourcing intelligent transportation system platform mechanism design (order allocation mechanism, incentive, and reward mechanism); human factors of social crowdsourcing driver (risk preference, learning fairness)

➤ ***Equipment reliability***: Intelligent fault diagnosis and equipment operation and maintenance, reliability modeling, allocation, and optimization methods

PUBLICATIONS

[1] **H Jiang**, J You, Z Chen, Y Shi, S Qiu, X Ming, PZH Sun. Preliminary Exploration for Long-Distance Non-Standardized Delivery. *IEEE Transactions on Intelligent Transportation Systems* (**IEEE TITS**) , vol. 24, no. 12, pp. 14347-14361, Dec. 2023, doi: 10.1109/TITS.2023.3299618.

[2] **H Jiang**, S Qiu, J You, PZH Sun, X Ming Optimal design of multi-type component allocation system with shared positions. *Advanced Engineering Informatics* (**AEI**) vol. 59, no. 102257, p. 102257, 2024, doi: 10.1016/j.aei.2023.102257.

[3] J You, **H Jiang**, Z Chen, X Ming, PZH Sun. Order allocation strategy for online car-hailing platform in the context of multi-party interests. *Advanced Engineering Informatics* (**AEI**) Vol. 57, no. 102110, p. 102110, 2023, doi: 10.1016/j.aei.2023.102110.

[4] Z Chen, **H Jiang**, J You, X Wang, PZH Sun. RFID Lightweight Authentication Mechanism for Smart Factories Based On Blockchain. *IEEE Journal of Radio Frequency Identification* doi: 10.1109/JRFID.2024.3356194.

[5] J You, Z Chen, **H Jiang**, PZH Sun. Dynamic AGV Conflict Detection Under Speed Uncertainty Considerations. *IEEE Transactions on Intelligent Vehicles* (**IEEE TIV**), doi: 10.1109/TIV.2023.3316249.

[6] Z Chen, J You, **H Jiang**, X Ming, PZH Sun. Auction mechanism-based order allocation for third-party vehicle logistics platforms. *Advanced Engineering Informatics* (**AEI**) vol. 58, no. 102116, p. 102116, 2023, doi: 10.1016/j.aei.2023.102116.

[7] PZH Sun, **H Jiang** et al. Recognizing Core Business Knowledge from Domain Knowledge Network Platform-based Business Development. *IEEE Transactions on Computational Social Systems* (**IEEE TCSS**), Accepted.

[8] **H Jiang**. Intelligent Software Aided by Large Language Models: A Preliminary Exploration of Software Intelligence Capabilities. **CSCW 2024 Posters**, in submission.

[9] PZH Sun, **H Jiang**. Breaking the Thinking Limitations of Knowledge Intensive Workers: Proactive Knowledge Supply as a Knowledge Sequential Recommendation. **CSCW 2025(CCF-A)**, in submission.

ACADEMIC SERVICE

- **Reviewer:** IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Intelligent Vehicles, IEEE Transactions on Cognitive and Developmental Systems, ACM Conversational User Interfaces(CUI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW)

- **Membership:** ACM/CCF/CAAI